

Title (en)

POUCH-TYPE SECONDARY BATTERY COMPRISING ELECTRODE LEAD USING CONDUCTIVE POLYMER

Title (de)

BEUTELARTIGE SEKUNDÄRBATTERIE MIT ELEKTRODENLEITUNG MIT LEITFÄHIGEM POLYMER

Title (fr)

BATTERIE SECONDAIRE DE TYPE POCHE COMPRENANT UN FIL D'ÉLECTRODE UTILISANT UN POLYMÈRE CONDUCTEUR

Publication

EP 3531477 A4 20200122 (EN)

Application

EP 18790460 A 20180410

Priority

- KR 20170052485 A 20170424
- KR 20180038969 A 20180404
- KR 2018004199 W 20180410

Abstract (en)

[origin: US2019207196A1] Disclosed herein is a pouch-shaped secondary battery including an electrode lead using a conductive polymer, wherein the electrode lead is configured to be cut in order to secure the safety of a pouch-shaped battery cell when the pouch-shaped battery cell swells due to gas generated in the pouch-shaped battery cell while the pouch-shaped battery cell is in an abnormal state or when the pouch-shaped battery cell is overcharged. It is possible to prevent electric current from flowing in the pouch-shaped secondary battery when the battery is in an abnormal state and when the pouch-shaped secondary battery is overcharged. In addition, it is possible to prevent a reduction in the energy density of the pouch-shaped secondary battery in the case in which an additional complicated device is provided in the pouch-shaped secondary battery.

IPC 8 full level

H01M 10/052 (2010.01); **H01M 50/178** (2021.01); **H01M 50/534** (2021.01); **H01M 50/536** (2021.01); **H01M 50/55** (2021.01); **H01M 50/557** (2021.01)

CPC (source: EP KR US)

H01M 10/0413 (2013.01 - EP KR US); **H01M 10/0436** (2013.01 - EP KR US); **H01M 10/052** (2013.01 - KR US); **H01M 50/116** (2021.01 - KR); **H01M 50/178** (2021.01 - EP KR US); **H01M 50/183** (2021.01 - KR); **H01M 50/534** (2021.01 - EP KR US); **H01M 50/536** (2021.01 - EP KR US); **H01M 50/55** (2021.01 - EP KR US); **H01M 50/557** (2021.01 - EP KR US); **H01M 50/578** (2021.01 - EP KR US); **H01M 2200/20** (2013.01 - EP KR US); **H01M 2220/20** (2013.01 - EP KR US); **H01M 2220/30** (2013.01 - KR); **Y02E 60/10** (2013.01 - EP KR); **Y02P 70/50** (2015.11 - EP KR)

Citation (search report)

- [X] EP 2950371 A1 20151202 - LG CHEMICAL LTD [KR]
- [XAI] KR 20140139793 A 20141208 - LG CHEMICAL LTD [KR]
- [XA] EP 2429018 A1 20120314 - SAMSUNG SDI CO LTD [KR]
- [A] WO 2016178539 A1 20161110 - LG CHEMICAL LTD [KR] & US 2018062148 A1 20180301 - CHO SEUNG SU [KR], et al
- See references of WO 2018199511A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 11063325 B2 20210713; **US 2019207196 A1 20190704**; CN 110088944 A 20190802; CN 110088944 B 20220308; EP 3531477 A1 20190828; EP 3531477 A4 20200122; EP 3531477 B1 20230104; JP 2019535111 A 20191205; JP 6902607 B2 20210714; KR 102292159 B1 20210824; KR 20180119106 A 20181101

DOCDB simple family (application)

US 201816334177 A 20180410; CN 201880004965 A 20180410; EP 18790460 A 20180410; JP 2019519712 A 20180410; KR 20180038969 A 20180404